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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,336	10/07/2003	Chaeyoon Lee	11005-022-999	5439
20583	7590	07/05/2005		EXAMINER
JONES DAY				KARLSEN, ERNEST F
222 EAST 41ST ST				
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			2829	

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/680,336	LEE, CHAEYOON
	Examiner Ernest F. Karlsen	Art Unit 2829

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 26 April 2005.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 2-27 is/are pending in the application.
4a) Of the above claim(s) 6-27 is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 2-5 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. _____
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

Claims 6-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected inventions and/or species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on November 1, 2004.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Schwar et al. With regard to claim 2, Schwar et al, see the whole specification, show a test contactor 23 mounted to a printed circuit board 22. The pin 23 of Figure 3 has an outer casing 37 soldered to a metallization path on the underside of element 22. (See column 3, line 50 to column 4, line 11 and column 5, lines 5-35.) An inner casing (conductor housing) 31 fits within the outer casing 37. A fixing hole in element 22 is inherent. A conductive spring 32 is mounted in the housing. A pin having a pinhead 35 and a shaft 34, a bottom portion in contact with the spring and a radially extending locking projection secured in the inner housing 31 by the annular stop 36 is shown by Schwar et al in Figure 3. The tip 35 of the conductive probe is projected outside of the printed circuit board. With regard to claim 3, the spring 32 contacts the bottom of the probe via the ball 33. With regard to claims 4 and 5, Figure 3 of Schwar et al show an insertion restraint step near the bottom of casing 37.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Katz '970, Katz '948, Heys et al, Coon et al, Kerschner et al and Firooz are cited to show additional PCBs with probes mounted thereon. (See column 5, lines 40-60 of Coon et al.) Cooney, Coe, Kreibich et al, Swart and Barabi are cited to show additional probe structure similar to that claimed.

Any inquiry concerning this communication should be directed to Ernest F. Karlsen at telephone number 571-272-1961.

Ernest F. Karlsen
June 29, 2005


ERNEST KARLSEN
PRIMARY EXAMINER